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1 [Lower bounds for parallel computation on linked structures](#)



F. Fich, V. Ramachandran

 May 1990 **Proceedings of the second annual ACM symposium on Parallel algorithms and architectures**

Publisher: ACM Press

 Full text available: [pdf\(817.17 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

2 [Formalization of operations and function definitions in a functional programming language for data structures](#)



John C. Thompson, Reza Sanati-Mehrizy

 February 1987 **Proceedings of the 15th annual conference on Computer Science**

Publisher: ACM Press

 Full text available: [pdf\(774.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents a method for formalization of operations on certain class of syntactically represented linked Data Structures and then defines a set of functions to perform the operations. The formalization will be done by designing a set of transformation rules which are based on the grammars generating these Data Structures. Rooted in formal language theory, this method of formalization provides a basis for mathematical demonstration of the correctness of the operations. The function ...

3 [Down with polynomial addition!](#)



R. K. Brewer

 March 1992 **ACM SIGCSE Bulletin , Proceedings of the twenty-third SIGCSE technical symposium on Computer science education SIGCSE '92**, Volume 24 Issue 1

Publisher: ACM Press

 Full text available: [pdf\(414.82 KB\)](#) Additional Information: [full citation](#), [index terms](#)


4 [Performance evaluation of ephemeral logging](#)



John S. Keen, William J. Dally

 June 1993 **ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD international conference on Management of data SIGMOD '93**, Volume 22 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(1.04 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Ephemeral logging (EL) is a new technique for managing a log of database activity on disk. It does not require periodic checkpoints and does not abort lengthy transactions as frequently as traditional firewall logging for the same amount of disk space. Therefore, it is well suited for highly concurrent databases and applications which have a wide distribution of transaction lifetimes. This paper briefly explains EL and then analyzes its performance. Simulation studies indicate th ...

5 Beyond Turing: a knowledge based model relativistic Cn machine



A. C. Manoharan, M. Manoharan

April 1992 **Proceedings of the 1992 ACM annual conference on Communications**

Publisher: ACM Press

Full text available:  [pdf\(684.94 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We extend some Turing notions of computation, from over the integers \mathbb{Z} , to computation over complex variables \mathbb{C} . Corresponding to scientific problems, we implement knowledge based heuristically developed Prolog databases for visualizing and symbolically analyzing domains for analytic functions over several complex variables. The domains, at the outset, deal with the quantum theory of physical fields, incorporating Einstein's special relativity in a 1-space, 1-time model. These methods could ...

6 Networks: An information-interconnectivity-based retrieval method for network attached storage



Iliyak Georgiev, Ivo I. Georgiev

April 2004 **Proceedings of the 1st conference on Computing frontiers**

Publisher: ACM Press

Full text available:  [pdf\(302.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Network attached disk storage is characterized by independent network attachment and embedded intelligence. For Internet applications, it provides the key functionality of geographical replication and intelligent retrieval of data objects. The paper describes a latency reducing method based on the relative interconnectivity between data objects. We follow the locality-of-reference principle to partition interrelated data objects on close disk areas or network storage nodes. The method incorporate ...

Keywords: interconnectivity-based retrieval, network attached storage, storage objects clustering

7 Convex Decomposition of Simple Polygons



S. B. Tor, A. E. Middleditch

October 1984 **ACM Transactions on Graphics (TOG)**, Volume 3 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(844.37 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 A coherent sweep plane slicer for layered manufacturing



Sara McMains, Carlo Séquin

June 1999 **Proceedings of the fifth ACM symposium on Solid modeling and applications**

Publisher: ACM Press

Full text available:  [pdf\(1.46 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: .STL format, CAD/CAM, computational geometry, rapid prototyping, slicing, topology

9 Extended ephemeral logging: log storage management for applications with long lived transactions



John S. Keen, William J. Dally

March 1997 **ACM Transactions on Database Systems (TODS)**, Volume 22 Issue 1

Publisher: ACM Press

Full text available: [pdf\(566.34 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)



Keywords: OLTP, disk management, logging, long transactions

10 Fast greedy triangulation algorithms



Matthew T. Dickerson, Robert L. Scot Drysdale, Scott A. McElfresh, Emo Welzl

June 1994 **Proceedings of the tenth annual symposium on Computational geometry**

Publisher: ACM Press

Full text available: [pdf\(1.08 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



11 Computing similarity in a reuse library system: an AI-based approach



Eduardo Ostertag, James Hendler, Rubén Prieto Díaz, Christine Braun

July 1992 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,
Volume 1 Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.70 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



This paper presents an AI based library system for software reuse, called AIRS, that allows a developer to browse a software library in search of components that best meet some stated requirement. A component is described by a set of (feature, term) pairs. A feature represents a classification criterion, and is defined by a set of related terms. The system allows to represent packages (logical units that group a set of components) which are ...

Keywords: facet classification, similarity-based retrieval

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